

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE-United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

	,				
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/066,365	02/05/2002	M. Samy El-Shall	021238-432 2446		
7590 11/26/2003			EXAMINER		
Peter K. Skiff			NGUYEN, CAM N		
BURNS, DOANE, SWECKER & MATHIS, L.L.P. P.O. Box 1404			ART UNIT	PAPER NUMBER	
Alexandria, VA 22313-1404			1754		

DATE MAILED: 11/26/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

> 1	~				V			
		Applica	tion No.	Applicant(s)				
		10/066,	365	EL-SHALL ET AL.				
	Office Action Summary	Examine	er	Art Unit				
		Cam N N		1754 .				
Period fo	The MAILING DATE of this communica or Reply	ition appears on ti	he cover sheet with the d	correspondence addres	i s			
THE - Exte after - If the - If NO - Failt - Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA insions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communication of the period for reply specified above is less than thirty (30) of period for reply is specified above, the maximum statuture to reply within the set or extended period for reply will reply received by the Office later than three months after ed patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no ecation. lays, a reply within the story period will apply and by statute, cause the a	event, however, may a reply be tin atutory minimum of thirty (30) day will expire SIX (6) MONTHS from oplication to become ABANDONE	mely filed ys will be considered timely. the mailing date of this commu ED (35 U.S.C. § 133).	nication.			
1)	Responsive to communication(s) filed	on <u>05 February 2</u>	<u>002</u> .					
2a)□	This action is FINAL . 2b)⊠ This action is non-final.							
3)□	Since this application is in condition for closed in accordance with the practice				rits is			
Disposit	ion of Claims							
4)[Claim(s) 1-38 is/are pending in the app	olication.	•	. *	•			
	4a) Of the above claim(s) is/are	withdrawn from c	onsideration.					
5)[Claim(s) <u>1-30</u> is/are allowed.							
6)[☐ Claim(s) <u>31-33,35,36 and 38</u> is/are rejected.							
7)	Claim(s) 34 and 37 is/are objected to.							
8)[Claim(s) are subject to restriction	n and/or election	requirement.					
Applicat	ion Papers							
9)[The specification is objected to by the E	Examiner.						
10)⊠	The drawing(s) filed on <u>05/7/02</u> is/are:	a) accepted or	b) objected to by the	e Examiner.				
	Applicant may not request that any objection		· ·	· ·				
_	Replacement drawing sheet(s) including the	-		•	• •			
11)	The oath or declaration is objected to b	y the Examiner. N	Note the attached Office	Action or form PTO-1	52.			
Priority (under 35 U.S.C. §§ 119 and 120							
a)	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority do 2. Certified copies of the priority do 3. Copies of the certified copies of application from the International	ocuments have be ocuments have be the priority docun I Bureau (PCT Ro	een received. een received in Applicat nents have been receiv ule 17.2(a)).	ion No ed in this National Stag	је			
13)∏ <i>/</i> s 3	See the attached detailed Office action for Acknowledgment is made of a claim for ince a specific reference was included in 7 CFR 1.78. I) The translation of the foreign language.	domestic priority on the first sentence	under 35 U.S.C. § 119(ce of the specification o	e) (to a provisional app r in an Application Data				
	Acknowledgment is made of a claim for eference was included in the first senter							
Attachmen	it(s)							
2) 🔲 Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO mation Disclosure Statement(s) (PTO-1449) Pape			r (PTO-413) Paper No(s) Patent Application (PTO-152				

Application/Control Number: 10/066,365

Art Unit: 1754

DETAILED ACTION

Claim Rejections - 35 USC § 102(b)

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 31-33, 35-36, & 38 are rejected under 35 U.S.C. 102(b) as being anticipated by Mesters et al., "hereinafter Mesters", (US Pat. 4,711,773).

Mesters discloses catalysts consisting essentially of a refractory oxidic carrier, copper, and zinc (see col. 10, claim 1). The particle size of the metallic copper is less than 20 nm (see col. 4, ln 1-11).

Mesters discloses the claimed nanosized particle of Cu/Zn alloy or supported catalyst structure, thus anticipates the claims.

Product-by-process limitations in the claims is noted. While the product of the reference is not made by the same process, the product made is the same as claimed. See *In re Thorpe*, 227 USPQ 964 (Fed. Cir. 1985); *In re Brown*, 173 USPQ 688, 688 (CCPA 1977); *In re Fessman*, 180 USPQ 324, 326 (CCPA 1977). See also *MPEP* 2113.

Art Unit: 1754

Allowable Subject Matter

- 3. Claims 34 & 37 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. Claims 1-30 are not being rejected under the art rejection because they contain allowable subject matter. The following is the statement of reason(s) for allowance of the claimed subject matter.

The prior art does not disclose or fairly suggest a method of making nanoparticles of a copper/zinc alloy <u>requiring</u> vaporizing the one or more targets by subjecting each of the one or more targets to a beam of laser energy to form a vapor. While the US Pat. 5,695,617 to Graiver et al. teaches a method of producing nanoparticles discloses this vaporizing step using the laser beam technique, it does not teach to produce the nanoparticles of copper/zinc alloy, copper (Cu), or zinc (Zn).

There is no motivation to combine the teachings of the references together.

Citations

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Pratsinis et al. (US Pat. 6,254,940 B1), Langner et al. (US Pat. 5,817,855), Pohl (US Pat. 6,080,699), Streckel et al. (US Pat. 5,306,328), Klar et al. (US Pat. 4,504,597), Wainwright et al. (US Pat. 4,349,464), Goretta et al. (US Pat. 4,363,752), Kim et al. (US Pat. 4,131,453), Breedis et al. (US Pat. 6,632,300 B2), Brook et al. (US Pat. 4,067,752),

Application/Control Number: 10/066,365

Art Unit: 1754

Tomikawa et al. (US Pat. 5,286,444), Mueller et al. (US Pat. 5,766,377), Pavate et al.

(US Pat. 6,391,163 B1), & Gaag et al. (US Pat. 5,658,401) are cited for related art.

Conclusion

Page 4

6. Claims 1-38 are pending. Claims 31-33, 35-36, & 38 are rejected. Claims 34 &

37 are objected. Claims 1-30 are allowed.

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Examiner Cam Nguyen, whose telephone number is

(703) 305-3923. The examiner can normally be reached on M-F from 8:30 am. to 6:00

pm, with alternative Monday off.

The appropriate fax phone number for the organization where this application or

proceeding is assigned is (703) 872-9310 (before finals) and (703) 872-9311 (after-

final).

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

0661.

Cam Nguyen

Primary Examiner

Art Unit: 1754

Nguyen/cnn (MV

November 21, 2003

Applicatio